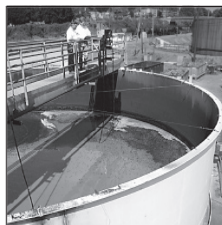


Industrial Pretreatment Quarterly

Published for Industrial Dischargers by the King County Industrial Waste Program (KCIW)



King County

Wastewater Treatment Division
Industrial Waste Program

Volume XXXI Issue 1 March 2005

Mission Statement

The mission of the Industrial Waste Program is to protect the environment, public health, biosolids quality, and King County's regional sewerage system. We work cooperatively with our customers as we regulate industrial discharges, provide technical assistance, and monitor the regional sewerage system.

Industrial Waste Advisory Committee

Kevin Burrell,

Environmental Coalition of South
Seattle (ECOSS)

Ken Gross, GM Nameplate

Sandy Hallberg, Asko Processing

Scott Woerman, North Creek

Analytical

Donna Hoskins, Berlex Laboratories

Mike Jeffers, Rebec LLC

Kim Niino, Safeway Distribution
Center

Al Rainsberger, Todd Pacific Shipyards

Tom Raymond, Honeywell, Inc.

Steve Skodje, Cargill, Inc.

Doris Turner, Boeing Commercial

Airplane Group- Renton

Chris VanHoof, City of Kent

2004 Rewards and Recognition Program

(Awarded in 2005 and listed here throughout that year)

Commitment-to-Compliance Award

B.S.B. Diversified Company

Boeing Electronics Center

Smith Fabrication Inc.

Vectra Fitness Inc.

KCIW Announces 2004 Rewards and Recognition Program winners

Each year the King County Industrial Waste Program (KCIW) recognizes significant industrial users (SIUs) of the sewer system that have helped to protect human health and the environment by maintaining an excellent record of compliance with rules and regulations for the previous calendar year. Congratulations!

For 2004, KCIW is honoring SIUs with the following awards: EnvirOvation, Commitment-to-Compliance, Gold Award and Silver Award. EnvirOvation Award winner(s) will be announced in King County Earth Month (April), as will King County Green Globe Award winners.

KCIW's Commitment-to-Compliance Award honors SIUs that have received a Gold Award for five consecutive years. 2004 winners are the B.S.B. Diversified Company, Boeing Electronics Center, Smith Fabrication Inc. and Vectra Fitness Inc.

KCIW commends 51 Gold Award recipients that discharged wastewater during a minimum of 12 months of the calendar year from at least one of their sites and have had no violations of any kind (including; discharge; permit; ordinance; reporting; self-monitoring; or King County monitoring).

The 26 Silver Award winners have had no King County monitoring violations, but have had a limited number of self-monitoring violations.

Inside this Issue

- 2004 Award Winners
- KCIW News
- Local Sewer Agencies Update
- Industrial Waste Advisory Committee meeting summary
- Industrial Materials Exchange (IMEX)
- Enforcement Information

KCIW News Briefs

KCIW Highlights, Facts and Statistics for 2004

The region is committed to improving its natural resources, including water. Protecting water quality is a sound business investment. KCIW thanks King County industry and other facilities for working with our program to manage waste throughout 2004.

Wastewater Discharge Permits and Discharge Authorizations

(DAs): At the end of 2004 KCIW had 136 wastewater discharge permits in effect, with metal plating and food processing companies as the largest categories of permit holders. The year ended with 286 DAs in effect. During the year KCIW issued nine new wastewater discharge permits and 23 permit renewals.

Biosolids: King County facilities produced a total of 26,132 dry tons of biosolids. The county's Biosolids Management Program recycled 100 percent of this beneficial material through a variety of markets including 76 percent to agriculture, 20 percent to Washington State Department of Natural Resources Forests and Hancock Timber Resource Group's Snoqualmie Forest, and four percent to GroCo Inc. composting. King County biosolids continue to maintain exceptionally low concentrations of heavy metals, organic compounds, and pathogenic microbes. In 2004, King County Class B biosolids continued to meet the strictest standards set by the U.S. Environmental Protection Agency (EPA) for recycling in land application projects.

To learn more about King County Biosolids Management Program, go to <http://dnr.metrokc.gov/WTDBiosolids/> on the Internet.

Monitoring and Inspections: During 2004 KCIW completed 274 inspections (as well as 60 inspections for the Duwamish Source Control Inspection Project); collected 2,163 discrete compliance samples; and identified a total of 33 discharge violations. During 2004 facilities with waste discharge permits submitted data for 7,562 samples that were analyzed as part of their self-monitoring requirements. A majority of these facilities also were required to report the highest and lowest readings each month from their continuous pH recording equipment.

Enforcement Activities: During 2004, KCIW issued Notices of Violation to 34 companies for 53 violations. None of the violations identified by KCIW or by self-monitoring caused the National Pollutant Discharge Elimination System (NPDES) permit exceptions at King County treatment facilities.

Fees: KCIW fees pay the costs treatment plants incur for treating high strength industrial waste. In 2004, the heavy metals fees increased significantly over 2003 primarily due to a reduction in the total industrial volume discharged by companies paying the monitoring charge. (See the December 2004 Pretreatment Quarterly.)

Categorical Pretreatment Regulation Activity: KCIW commented on the EPA's Preliminary Effluent Guidelines Program Plan for 2004/2005 and on the EPA's 2004 Pretreatment Streamlining Rule.

Gold Award

A.O. Smith Water Products Company
Aero Controls, Inc. – 20th Street NW
Alaskan Copper Works – 6th Ave.
Amgen Corporation – Bothell
Asko Processing, Inc.
Avtech Corporation
B.S.B. Diversified Company
Baker Commodities Inc.
Ball Metal Beverage Container Corp.
Berlex Laboratories (Washington) LLC
– Bothell
Boeing Commercial Airplane – North Field
Boeing Commercial Airplane – Renton
Boeing Electronics Center
BP-Arco Petroleum
Burlington Northern/Santa Fe Railway
Carnitech US, Inc.
Crane-Eldec Corp. – North Creek Facility
Exotic Metals Forming Company
Genie Industries – Bldgs. 3 & 4
Glacier Northwest, Inc. – Kenmore
Hytek Finishes Company
I-90 Express Finishing
Industrial Container Services
Interstate Brands Corporation – Hostess
Island Spring, Inc.
Kenworth Truck Company – Renton
Magnetic And Penetrant Services Co.
Mastercraft Metal Finishing, Inc.
Mikron Industries
Oberto Sausage Company – Airport Way
Pacific Iron & Metal
Pacific Rendering Company, Inc.
Pepsi-Cola Company
Pioneer Industries
Protective Coatings Inc.
Quality Finishing Inc.
Redhook Brewing Company
Rexam Beverage Can Company
Safeway, Inc. – Beverage Plant
Seattle Solid Waste –
Kent Highlands Landfill
Shasta Beverage
Skills, Inc. – Auburn Facility
Smith Fabrication Inc.
Stockpot, Inc.
Tri-Way Industries Inc.
Universal Manufacturing

Universal Sheet Metal, Inc.
Vectra Fitness Inc.
Western Pneumatic Tube
Western Processing Trust Fund II
Weyerhaeuser Company

Silver Award

Acu-Line Corporation
Aerojet-General Corporation
Art Brass Plating, Inc.
Carl Zapffe, Inc.
Cedar Grove Composting, Inc.
Circuit Services WorldWide
Container Properties, LLC
Costco Wholesale
Crane-Eldec Corp. – Martha Lake Facility
Dawn Food Products, Inc.
Emerald Services, LLC
GKN Aerospace Chem-tronics Inc.
GM Nameplate, Inc.
Honeywell International Inc.
Industrial Plating Corporation
Kerry Inc.
King County Solid Waste –
Cedar Hills Landfill
Marco Shipyard Seattle, Inc.
Northstar Beverage Company
Oberto Sausage Company – Kent
Pacific Propeller International, LLC
Philip Environmental Services Corp.
Puget Sound Energy, Inc.
Rabanco Recycling Company
TTM Technologies, Inc.
Universal Brass, Inc.

Every year, King County recognizes significant industrial users of the sewer system that have maintained an excellent record of compliance with the county's industrial waste discharge regulations for the previous calendar year. For awards criteria and more information, go to <http://dnr.metrokc.gov/wlr/indwaste/Awards.htm> on the Web.

King County's industrial pretreatment regulations are designed to prevent businesses from discharging substances that can degrade the wastewater treatment process, harm workers, damage facilities or reduce surface-water quality.

KCIW investigated the following incidents in 2004:

At West Point Treatment Plant:

- In January 23, West Point received a 1400-gallon diesel spill when a fuel delivery was accidentally pumped into a sewer clean-out pipe.
- Three unusual occurrences related to high pH were reported during the year. On May 12 the pH exceeded 12.0, on June 1 the pH measured 9.0 and on November 21 the pH measured 8.3. Samples that the treatment plant collected during these events indicated all metals were within normal range.

At South Treatment Plant:

- In February, South Plant received an additional 10 pounds of chromium sludge from a company that upset its pretreatment clarifier.
- There were two foaming events at South Plant in 2004 (January, July). These seem to be repeats of similar foaming events that occurred in 2003. The foam appears in the aeration basins and causes an increase in air (oxygen) demand. This requires the need to operate additional blowers and results in higher energy costs for the plant. KCIW is working to determine if the events are related to biodegradable surfactants such as those found in AFFF fire-fighting foam.
- In May, South Plant received a 3700-gallon caustic spill.
- In October, the plant received a 5600-gallon concentrated sulfuric acid spill.

These incidents did not affect effluent or biosolids quality.

Dental Waste Project: KCIW established a deadline of July 2003 for all county dental practices to comply with the county's mercury limit. This initiative resulted in an approximate 50 percent reduction in the amount of mercury in King County biosolids from 2000 - 2003. Based upon inspections, currently over 97 percent of the dental offices are in compliance with the regulations.

Lower Duwamish Source Control Inspection Project:

KCIW and Seattle Public Utilities (SPU) are spearheading a joint inspection project to reduce the amount of pollutants discharged to the Lower Duwamish Waterway. At the end of 2004 inspectors had completed a total of 803 business inspections in the Duwamish Diagonal Basin and 46 inspections in the Slip 4 basins. No significant sources of contaminants to the waterway were found during the business inspections. Instead, many small problems/corrective actions were identified at numerous businesses. The most common problems were related to stormwater or hazardous waste management. Staff worked with businesses and property owners to impart Best Management Practices that helped reduce the quantity of pollutants discharged. Public Health-Seattle and King County, and the Local Hazardous Waste Management Program in King County are helping with the inspections.

These topics are covered in more detail on the KCIW Web pages at <http://dnr.metrokc.gov/wlr/indwaste/index.htm> on the Internet. You may also contact the program to receive a copy of KCIW's 2004 Annual Report.

Local Sewer Agencies Update: Staying in Touch

To successfully protect human health and the environment, it is critical that KCIW maintain its good working relationship with local sewer agencies. One component of this relationship is the flow of information.

KCIW is dedicated to providing local agencies with any information it has regarding sources and characteristics of the industrial/commercial wastewater discharges entering local collection systems. To do so, it is important that KCIW work with a designated contact person in each agency.

KCIW notifies local agencies of companies that have applied for wastewater discharge permits in their area, and keeps them informed throughout the permitting process, including offering opportunities to comment on draft permits and supplying copies of final permits.

The program also provides copies of relevant enforcement actions that it issues. This information can make agencies aware of potential problems to the health of their local systems, such as corroded pipes from acidic discharges. The program may deal with several people at a local agency on issues such as local system capacity, special local limits, odor problems and public complaints.

KCIW would like the information pathway to be a two-way street. Since local sewer agencies normally have people out in the field everyday, KCIW relies on these staff to notify it of potential or actual problems they notice, such as questionable discharges. The program would also like to know about new facilities in the area that may need to be permitted for their wastewater discharges.

KCIW asks that agencies inform it whenever there is a change in personnel so that it can ensure that the key information will go to the correct person. KCIW assigns an investigator to each agency as a liaison who is in touch during the year. (See chart at right.)

The King County Web page for Metropolitan Water Pollution Abatement Advisory Committee (MWPAAC), the Regional Water Quality Committee and listing links for local sewer agencies is <http://dnr.metrokc.gov/wtd/mwpaac> on the Internet. KCIW has information for local sewer agencies at <http://dnr.metrokc.gov/wlr/indwaste/index.htm> on the Internet, or call using contact information on page 1.

Industrial Waste Advisory Committee (IWAC) Meeting

Summary of February Industrial Waste Advisory Committee (IWAC) meeting

- 1. Announcements:** IWAC welcomed new member Al Rainsberger of Todd Pacific Shipyards.

At the May meeting KCIW staff will make a presentation and lead a discussion about Polar Fats Oil, and Grease (FOG) issues including discussion about new chemical solutions for Polar FOG, sampling techniques, and possible changes to KCIW ordinance.

- 2. Technological Aspects of Brightwater Treatment Plant:** Engineer John Komorita of the King County Wastewater Treatment Division gave a presentation on the

technological aspects and design plans for the new Brightwater Treatment Plant. The new treatment plant will include: wastewater treatment systems, biosolids production, advanced treatment of a portion of the flows for water reuse, and odor control systems. A new method of secondary treatment will be used at Brightwater called Membrane Bioreactor (MBR) technology. Secondary treatment is the process where soluble and fine suspended dissolved materials (not already removed at preliminary or primary treatment) are removed from the wastewater. MBR technology will be used as an alternative to more conventional secondary processes known as conventional activated sludge, providing substantially better effluent quality. Brightwater's MBR secondary

(continued on page 6)

KCIW contacts for local sewer agencies

Alderwood Water District	Patricia Magnuson	patricia.magnuson@metrokc.gov	206-263-3021
Cedar River Water and Sewer District	Dave Haberman	dave.haberman@metrokc.gov	206-263-3007
City of Algona	Jim Sifford	jim.sifford@metrokc.gov	206-263-3008
City of Auburn	Jim Sifford	jim.sifford@metrokc.gov	206-263-3008
City of Bellevue	Peggy Rice	peggy.rice@metrokc.gov	206-263-3028
City of Black Diamond	Jim Sifford	jim.sifford@metrokc.gov	206-263-3008
City of Bothell	Patricia Magnuson	patricia.magnuson@metrokc.gov	206-263-3021
City of Brier	Lydia Eng	lydia.eng@metrokc.gov	206-263-3017
City of Carnation	Patricia Magnuson	patricia.magnuson@metrokc.gov	206-263-3021
City of Issaquah	Barbara Badger	barbara.badger@metrokc.gov	206-263-3024
City of Kent	Arnaud Girard	arnaud.girard@metrokc.gov	206-263-3012
City of Kirkland	Peggy Rice	peggy.rice@metrokc.gov	206-263-3028
City of Lake Forest Park	Arnaud Girard	arnaud.girard@metrokc.gov	206-263-3012
City of Mercer Island	Lydia Eng	lydia.eng@metrokc.gov	206-263-3017
City of Pacific	Lydia Eng	lydia.eng@metrokc.gov	206-263-3017
City of Redmond	Arnaud Girard	arnaud.girard@metrokc.gov	206-263-3012
City of Renton	Jim Sifford	jim.sifford@metrokc.gov	206-263-3008
City of Seattle	Denise Healy	denise.healy@metrokc.gov	206-263-3004
City of Tukwila	Arnaud Girard	arnaud.girard@metrokc.gov	206-263-3012
Coal Creek Utility District	Peggy Rice	peggy.rice@metrokc.gov	206-263-3028
Cross Valley Water District	Patricia Magnuson	patricia.magnuson@metrokc.gov	206-263-3021
Edmonds Wastewater Treatment Plant	Dave Haberman	dave.haberman@metrokc.gov	206-263-3007
Highlands Sewer District	Dave Haberman	dave.haberman@metrokc.gov	206-263-3007
Lakehaven Utility District	Lydia Eng	lydia.eng@metrokc.gov	206-263-3017
Northshore Utility District	Dave Haberman	dave.haberman@metrokc.gov	206-263-3007
Olympic View Water and Sewer District	Patricia Magnuson	patricia.magnuson@metrokc.gov	206-263-3021
Ronald Wastewater District	Patricia Magnuson	patricia.magnuson@metrokc.gov	206-263-3021
Sammamish (NE) Sewer and Water District	Barbara Badger	barbara.badger@metrokc.gov	206-263-3024
Sammamish Plateau Water and Sewer District	Barbara Badger	barbara.badger@metrokc.gov	206-263-3024
Skyway Water and Sewer Districts	Barbara Badger	barbara.badger@metrokc.gov	206-263-3024
Soos Creek Water and Sewer District	Peggy Rice	peggy.rice@metrokc.gov	206-263-3028
ValVue Sewer District	Barbara Badger	barbara.badger@metrokc.gov	206-263-3024
Vashon Sewer District	Peggy Rice	peggy.rice@metrokc.gov	206-263-3028
Woodinville Water District	Dave Haberman	dave.haberman@metrokc.gov	206-263-3007

Industrial Waste Advisory Committee (IWAC) Meeting

(continued from page 4)

treatment at will be designed to treat about 38 million gallons per day, which would make it the largest MBR system in the world.

For more information on the Brightwater Treatment System, visit dnr.metrokc.gov/wtd/brightwater/ on the Internet.

3. Water Quality of our area's Lakes, Rivers, and Streams:

Water Quality Planner Jonathan Frodge of the King County Water and Land Resources Division gave a presentation on the quality of fresh waters in the King County area. His group monitors the water and sediment in King County lakes, rivers, and streams. Sampling and flow monitoring sites are distributed around the lakes, rivers, and streams to monitor the long-term environmental quality of these

waters. Results from ongoing monitoring and special studies are published in reports and on the Internet. Water quality data is used for the development of predictive water quality models that will be used for the long-term management of these lakes, rivers, and streams.

For more information about this monitoring program and water quality of King County fresh waters, visit dnr.metrokc.gov/topics/lakes/LKStopic.htm on the Internet.

The next meeting will be at 9:00 a.m., May 4, 2005. Remaining agenda and location to be determined. For further information, including arrangements must be made ahead of time for people who have needs or disabilities, contact KCIW at 206-263-3000 (voice) or 711, TTY Relay Service, or e-mail: kristin.painter@metrokc.gov.

Industrial Materials Exchange (IMEX) provides resources for businesses

This information is taken from the IMEX Web pages of Local Hazardous Waste Management Program in King County:

The Industrial Materials Exchange (IMEX) is a free service designed to help businesses find markets for their industrial by-products, surplus materials and wastes. Through IMEX, waste generators can be matched with waste users.

The goal of IMEX is to conserve energy, resources and landfill space by helping businesses and organizations find alternatives to the disposal of valuable materials or wastes.

IMEX is the "industrial classifieds" of the Pacific Northwest. Businesses, offices, schools, and individuals "advertise" their surplus/unwanted materials, or materials they want to get, by completing the electronic IMEX listing form. Once a shopper completes and submits the form, IMEX posts the listings on the IMEX website. It updates the website

weekly and prints the catalog quarterly.

Businesses can look for and find materials in IMEX by browsing or searching the materials categories. Inside the IMEX catalog are listings of a wide variety of materials available, with commonplace items as well as more uncommon listings. It lists items such as wood pallets and out-of-fashion textiles, chemicals such as sodium hydroxide as well as unusual items such as feather dust.

For more information, see the IMEX at <http://www.govlink.org/hazwaste/business/imex/> on the Internet or contact IMEX at 206-296-4899 or by e-mail at imex@metrokc.gov

This information is available on advance request in accessible formats for persons with disabilities. Please call 206-263-3000 or TTY relay service at 1-800-833-6388.

Publication of recent enforcement actions

King County's Industrial Waste Program is responsible for making sure that water used by county industries returns to our waterways clean and safe. This effort protects our water resources, our public health, workers at treatment plants, and the biosolids produced there.

The vast majority of King County's businesses do an excellent job of meeting these clean water goals by treating their industrial wastewater before they discharge it to the sewer. Whenever possible, we work to provide technical assistance and help industries reach compliance before enforcement actions become necessary. If companies violate clean water standards, however, we do take enforcement actions, as federal regulations require.

The following companies are users of the county sewer system that violated treatment requirements between December 2004 and February 2005 (or have not had their violations previously published) and either:

- were found in significant noncompliance during the reporting period, or
- received fines, or
- had violations that were unique or warranted special attention.

Circuit Partners
1575 N.W. Mall St.
Issaquah, WA 98027

Nature of Violation/ Type of Pollutant: Late report-October 2004 monthly self-monitoring report.

Basis for Publication: Had a violation that warranted a fine.

Comments: Circuit Partners has gone out-of-business.

Penalty: \$500 fine.

Precor Incorporated-Plant 1
20010-142nd Ave. N.E.
Woodinville, WA 98072-4002

Nature of Violation/ Type of Pollutant: Late report-"Biannual Total Toxic Organics Report."

Basis for Publication: Had a violation that warranted a fine.

Comments: Precor Incorporated-Plant 1 filed its report one day past the final notice due date.

Penalty: \$100 fine.

Precor Incorporated-Plant 2
14210 NE 203rd St.
Woodinville, WA 98072-4002

Nature of Violation/ Type of Pollutant: Late report-Biannual Total Toxic Organics Report.

Basis for Publication: Had a violation that warranted a fine.

Comments: Precor Incorporated-Plant 2 filed its report one day past the final notice due date.

Penalty: \$100 fine.

Other Enforcement Actions: KCIW also acted on 10 other violations at eight companies for the following pollutants and/or parameters: late reports (4); chrome (1); copper (3); lead (1); zinc (1).

We all need to work together to prevent pollution. If you have information for the Industrial Waste Program or questions about our programs, please call 206-263-3032 or 711, TTY Relay Service. You may also visit our program's pages at <http://dnr.metrokc.gov/wlr/indwaste/index.htm> on the Internet.



Wastewater Treatment Division
Industrial Waste Program
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King County's Wastewater Treatment Division protects public health and water quality by serving 17 cities, 17 local sewer agencies and more than 1.4 million residents in King, Snohomish and Pierce counties. The regional public utility has been preventing water pollution for nearly 40 years.



King County biosolids continue to maintain exceptionally low concentrations of heavy metals, organic compounds, and pathogenic microbes. In 2004, King County Class B biosolids continued to meet the strictest standards set by EPA for recycling in land application projects. (See year in review pages 2-3.)

Clean Water: A Sound Investment